

湖北无心菜属(石竹科)一新种

——神农架无心菜

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Arenaria shennongjiaensis, a new species of the Caryophyllaceae from Hubei, China

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Abstract *Arenaria shennongjiaensis* Z. E. Zhao & Z. H. Shen, a new species of the Caryophyllaceae from Shennongjia, Hubei, China, is described and illustrated. It is related to *A. giraldii* (Diels) Mattf. in having fusiform root, and petals tooth-like lobed, but differs by having stem with one line of glandular hairs, and petals tooth-like 4-lobed, with the lobes being 2-lobulate.

Key words *Arenaria*, *Arenaria shennongjiaensis* Z. E. Zhao & Z. H. Shen, Caryophyllaceae, new species, Hubei, China.

摘要 描述了湖北省神农架地区发现的石竹科一新种——神农架无心菜 *Arenaria shennongjiaensis* Z. E. Zhao & Z. H. Shen, 并绘出了线图。该种与秦岭无心菜 *A. giraldii* (Diels) Mattf. 相近, 为柔弱草本, 具纺锤形块根, 花瓣顶端齿裂; 不同之处在于其茎有1列腺毛, 花瓣顶端具4齿裂, 裂片又2浅裂。

关键词 无心菜属; 神农架无心菜; 石竹科; 新种; 湖北; 中国

2001年7月12日前后, 作者到湖北神农架自然保护区进行了植被和生物多样性调查。在神农顶以西, 沿山脊通往大九湖的公路南侧的金丝燕垭附近(31°26'55" N, 110°16'05" E)的石灰岩山脊南坡上部亚高山箭竹灌丛间的草甸中发现一种石竹科Caryophyllaceae草本植物。该植物时值花期, 成小片分布。植株有块根, 花单型, 有别于孩儿参属 *Pseudostellaria* Pax植物, 但花瓣较复杂, 不易判定属于何属。2002年7月花期和8月底果期再去该地采集标本, 观察发现蒴果裂齿为花柱数2倍, 种子无种阜, 结合花序特征, 确定为无心菜属 *Arenaria* L. 一新种。

神农架无心菜 新种 图 1

Arenaria shennongjiaensis Z. E. Zhao & Z. H. Shen, sp. nov. Fig. 1

Species affinis *A. giraldii* (Diels) Mattf., a qua differt caule ad omnes nodos dichotomo,

2003-10-30 收稿, 2004-07-02 收修改稿。

基金项目: 国家自然科学基金项目(30000024); 国家重点基础研究发展规划项目(G2000046801) (Supported by the National Natural Science Foundation of China (Grant No. 30000024) and the State Key Basic Research and Development Plan (Grant No. G2000046801))。

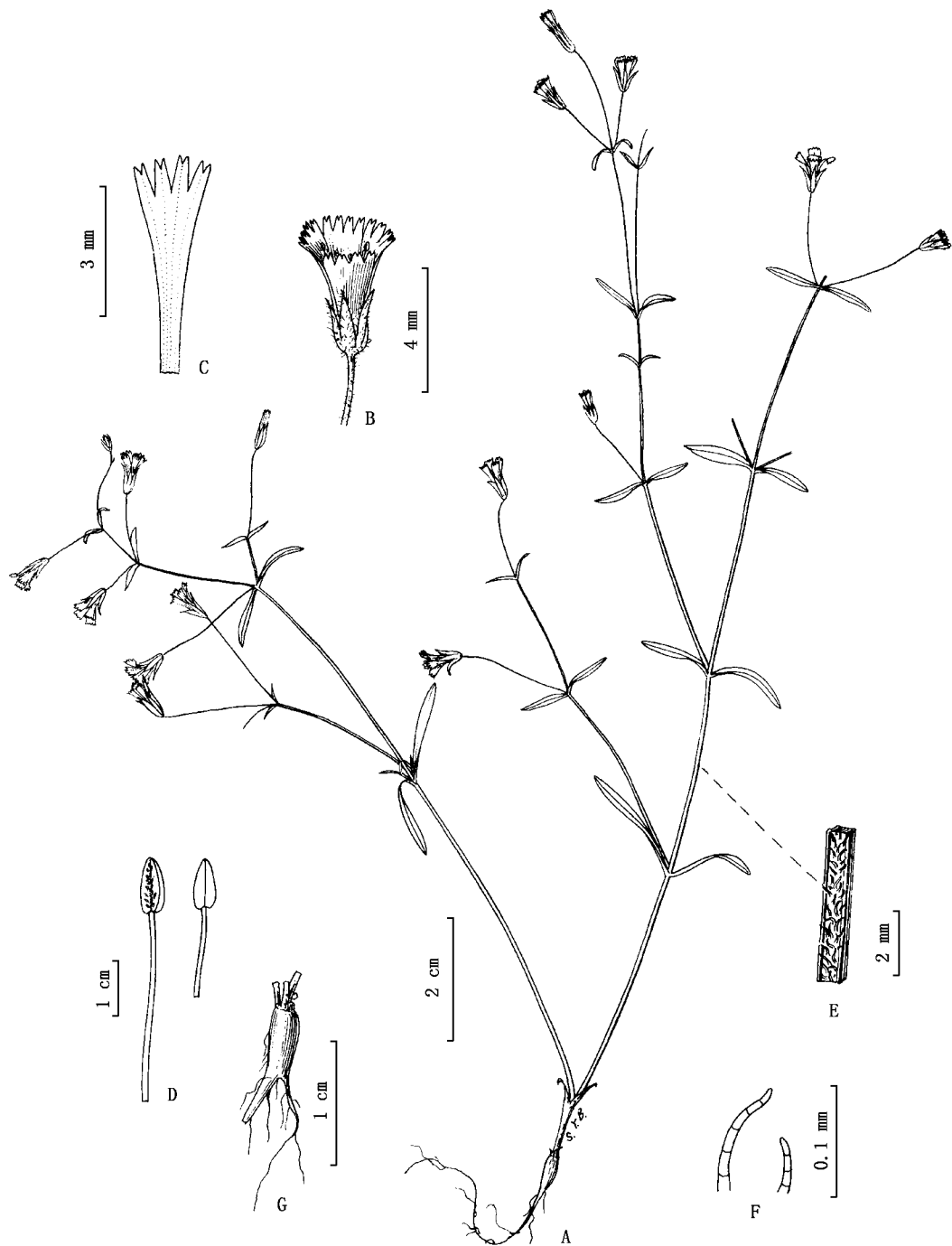


图1 神农架无心菜 A, 体态; B, 花; C, 花瓣; D, 雄蕊; E, 茎; F, 腺毛; G, 根系。(孙英宝根据沈泽昊,赵子恩8594 绘)

Fig. 1. *Arenaria shennongjiaensis* Z. E. Zhao & Z. H. Shen. A, habit; B, flower; C, petal; D, stamens; E, stem (enlarged); F, glandular hairs; G, root system. Drawn by Y. B. Sun from the type gathering, Z. H. Shen, Z. E. Zhao 8594.

unifariam glanduloso-puberulo, petalis 4-lobatis, lobis apice 2-lobulatis.

Herba gracilis 8-35 cm alta. Tuber fusiforme singulum, 5-20 mm longum, 1.5-4 mm diam. Caulis 1 vel 2-3 fasciculatus, ad omnes nodos dichotomus, 1-fariam purpureo-brunneo-glanduloso-puberulus. Folia uniformia, lineari-lanceolata, 0.6-6.5 cm longa, 1.5-10 mm lata, apice acuta, basi attenuata, glabra, sessilia. Flos singularis, terminalis, 1-1.2 cm diam. Pedicellus purpureo-brunneo-glanduloso-puberulus. Sepala 5, lanceolata, 3.5-4.5 mm longa, 0.8 mm lata, viridia, extus purpureo-brunneo-glanduloso-puberula, apice acuta, margine alba, membranacea; petala 5, purpureo-caerulea, obovato-cuneiformia, 8-10 mm longa, 3.5-4 mm lata, 4-lobata, lobis apice 2-lobulatis. Stamina 10; filamenta 4-7 mm longa, alba, apice purpureo-caerulea; antherae 1 mm longae, caerulea. Ovarium ovoideum, 1 mm longum, viridulum. Styli 2, albi, 2.5 mm longi. Capsula ovoidea, 3.5-4 mm longa, 3 mm diam.

China. Hubei (湖北): Shennongjia (神农架), Shennongjia Forest District (神农架林区), Jinsiyanya (金丝燕垭), alt. 2850 m, 2001-07-12, Z. H. Shen (沈泽昊), Z. E. Zhao (赵子恩) 8594 (holotype, HIB; isotype, PE); the same locality, 2002-08-26, Z. E. Zhao (赵子恩) 8658 (PE).

柔弱草本,高8-35 cm。块根纺锤形,单生,长5-20 mm,直径1.5-4 mm。茎单生或2-3个簇生,黄绿色,每节二分枝,被1列紫褐色腺毛。叶同型,绿色,线状披针形,长0.6-6.5 cm,宽1.5-10 mm,先端急尖,基部渐狭,无毛,无柄。花生于枝顶端,直径1-1.2 cm。花梗被紫褐色腺毛。萼片5,披针形,长3.5-4.5 mm,宽0.8 mm,绿色,外面被紫褐色腺毛,顶端急尖,边缘白色,膜质。花瓣5,淡紫蓝色,倒卵状楔形,长8-10 mm,宽3.5-4 mm,顶端4裂,裂片2浅裂。雄蕊10;花丝长4-7 mm,白色,顶端紫蓝色;花药长1 mm,蓝色。子房卵形,长1 mm,淡绿色。花柱2枚,离生,线形,长2.5 mm,白色。无闭锁花。蒴果卵球形,长3.5-4 mm,直径3 mm。

本种与秦岭无心菜 *A. girdii* (Diels) Mattf. 相似,同为近直立的柔弱草本,具纺锤形的根,花瓣顶端齿裂。但本种茎有1列毛,花瓣顶端4裂,裂片又2浅裂,易与前者区别。

致谢 李振宇先生审阅全文并提出重要修改意见,孙英宝先生绘制插图。在此一并致谢!